Defining ML Model >

- ·ML Model
- : Mathematical model functions with parameters and hyper-parameters
- · Parameter
- : Real valued variable that changes during model training
- · Hyper parameter
- : A setting that we set before training and which doesn't change afterwards.

< Introducing the Natality Dataset>

- · Encode class Membership (5 implest way)
- : Using binary.
- · A way to map our time onto a binary classification rule
- Rely on the sign of the output.

\* Gradient descent (An analytical solution is no longer an option)

Evaluate the parameters?

> The space where the data live, are often themselves infinite,

it's not possible to evaluate.

The we continue what this calculation would like using what we have, our training data of a group

- loss function

Doing generalize from the quality of a prediction for a single data point, which is simply the error of that Prediction to a number that captures the quality